

## PROJECT DESCRIPTION

### GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 45 (YORK ROAD) AND SHAWAN ROAD IN BALTIMORE COUNTY. MD 45 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

### INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE MD 45 (YORK ROAD) APPROACHES OPERATING CONCURRENTLY AND THE SHAWAN ROAD APPROACHES OPERATING SPLIT.

EXCLUSIVE/PERMISSIVE LEFT-TURN PHASING EXISTS ON BOTH MD 45 APPROACHES.

### CONTROLLER REQUIREMENTS

THE EXISTING POLE MOUNTED CABINET AND CONTROLLER SHALL BE USED.

## MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT.

MULTILANE UNDIVIDED - LEFT LANE CLOSURE

MULTILANE UNDIVIDED - RIGHT LANE CLOSURE

MULTILANE UNDIVIDED - INTERSECTION FAR RIGHT

LANE CLOSURE

MULTILANE UNDIVIDED - LEFT LANE CLOSURE

MULTILANE UNDIVIDED - RIGHT LANE CLOSURE

MULTILANE UNDIVIDED - CENTER LANE CLOSURE

MULTILANE UNDIVIDED - INTERSECTION TURN BAY

LANE CLOSURE

## PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

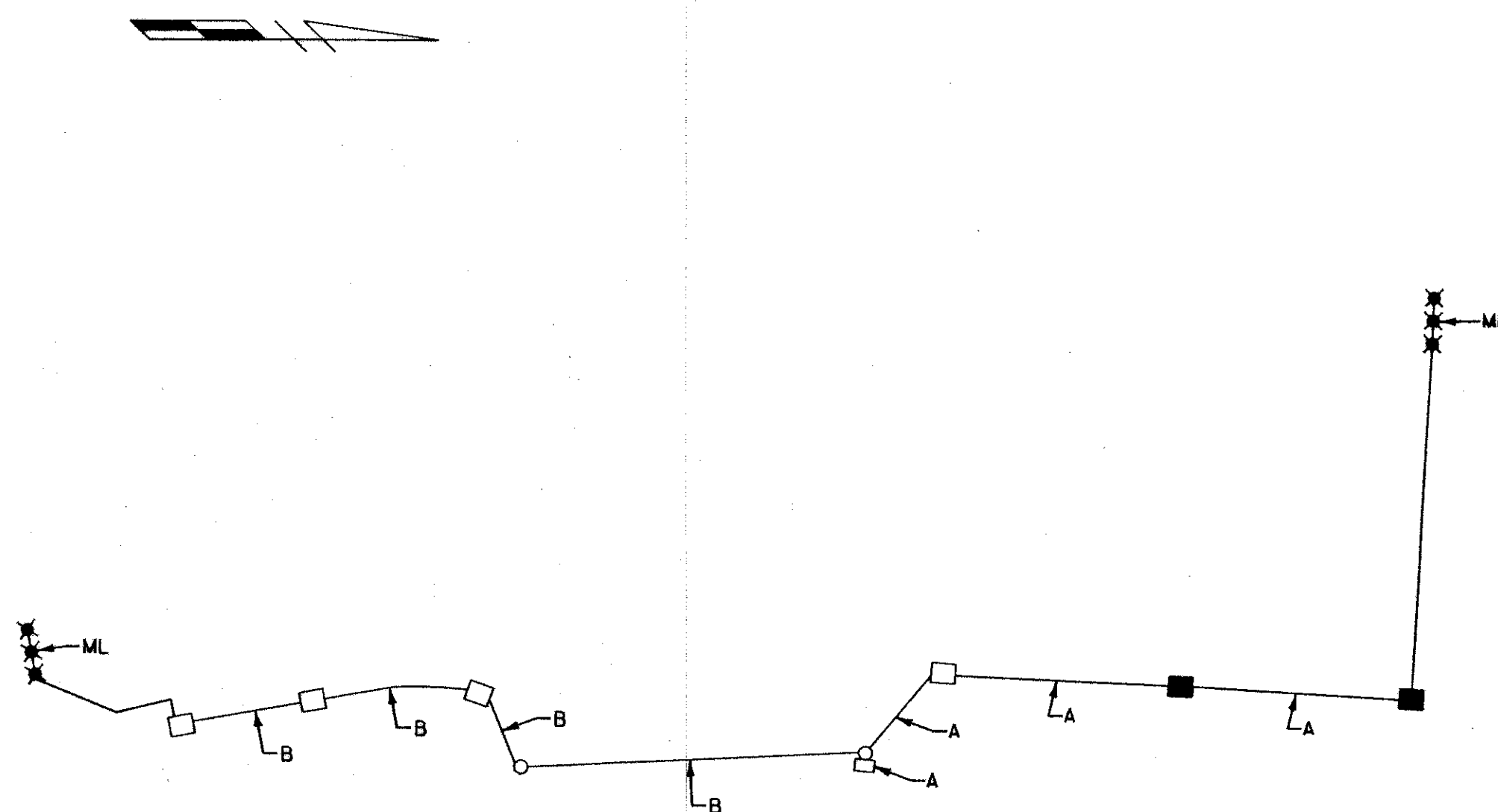
MR. RANDALL SCOTT  
ASSISTANT DISTRICT ENGINEER - TRAFFIC  
PHONE: (410) 321-3514

MR. DAVE RAMSEY  
ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
PHONE: (410) 321-3468

MR. JOE McMAHON  
DISTRICT UTILITIES ENGINEER  
PHONE: (410) 321-3456

MR. RICHARD L. DAFF, SR.  
CHIEF, TRAFFIC OPERATIONS DIVISION  
PHONE: (410) 787-7630

## WIRING DIAGRAM



### WIRING KEY

A } MICROLOOP PROBE LEAD-IN

ML - MICROLOOP PROBE SET

## EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

CATEGORY CODE NO.	QUANTITY	DESCRIPTION
973023	36 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF :
		- 1 EACH R3-6 SIGN (30 IN. x 36 IN.) - SPAN MOUNT
		- 1 EACH ASSOCIATED SHIELD ASSEMBLY "SOUTH, MD 45, RIGHT ARROW" (24 IN. x 51 IN.) - POLE MOUNT
		- 1 EACH ASSOCIATED SHIELD ASSEMBLY "NORTH, MD 45, LEFT ARROW" (36 IN. x 75 IN.) - POLE MOUNT

## EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR

## EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

CATEGORY CODE NO.	QUANTITY	DESCRIPTION
585450	175 L.F.	24 INCH WHITE HEAT APPLIED PERMENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
585624	175 L.F.	REMOVAL OF EXISTING PAVEMENT MARKINGS - ANY WIDTH
805135	325 L.F.	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
805160	20 L.F.	FURNISH AND INSTALL 1 IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
807400	1 EACH	ELECTRICAL UTILITY SERVICE EQUIPMENT 120/240 VOLTS 60 AMP
810010	45 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 1 CONDUCTOR NO. 4 A.W.G. - THHN/THWN
810550	2 EACH	FURNISH AND INSTALL MICROLOOP PROBE SET WITH 500 FOOT LEAD-IN CABLE
811001	2 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
813015	36 S.F.	INSTALL OVERHEAD SIGN
860270	6 EACH	FURNISH AND INSTALL 8 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION
860272	16 EACH	FURNISH AND INSTALL 12 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION
862102	175 L.F.	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)
800000	LUMP SUM	REMOVAL AND DISPOSAL OF EXISTING MATERIAL AND EQUIPMENT

## PHASE CHART

	1	2	3	6	7	8	9	10	11	12	13	14
PHASE 1 + 5	R	R	R	R	R	R	R	R	R	R	R	R
1 + 5 CHANGE	G	G	G	G	G	G	G	G	G	G	G	G
PHASE 1 + 6	G	G	G	R	R	R	R	R	R	R	R	R
1 + 6 CHANGE	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PHASE 2 + 5	R	R	R	G	G	G	R	R	R	R	R	R
2 + 5 CHANGE	R	R	R	Y	Y	Y	Y	Y	Y	Y	Y	Y
PHASE 2 + 6	G	G	G	G	G	G	R	R	R	R	R	R
2 + 6 CHANGE	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PHASE 3	R	R	R	R	R	R	G	G	G	R	R	R
3 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y
PHASE 4	R	R	R	R	R	R	R	R	R	G	G	G
4 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R

**WR&A**

Whitman, Reardon  
and Associates, LLP  
801 South Caroline Street  
Baltimore, Maryland 21231  
(410) 235-3450



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION  
Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION SHEET  
MD 45 (YORK ROAD) AND SHAWAN ROAD

DRAWN BY: S. BLOSS	F.A.P. NO.	TS NO.	3007
CHECKED BY: N. LEARY	S.H.A. NO.	15945	SHEET NO.
SCALE: NONE	COUNTY: BALTIMORE	T.I.M.S. NO.	D-831
DATE: 3/5/02	LOG MILE: 03004509.21	OF	